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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:09:56 ON 23 OCT 2003

=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.21        0.21

FILE 'REGISTRY' ENTERED AT 16:10:01 ON 23 OCT 2003

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\Program Files\Stnexp\Queries\lipid-z.str

L1      STRUCTURE UPLOADED

=> que L1

L2      QUE L1

=> s l2
SAMPLE SEARCH INITIATED 16:10:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 10697 TO ITERATE

    9.3% PROCESSED    1000 ITERATIONS                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   207746 TO 220134
PROJECTED ANSWERS:      0 TO      0

L3              0 SEA SSS SAM L1

=> file caplus
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.40        0.61

FILE 'CAPLUS' ENTERED AT 16:10:44 ON 23 OCT 2003

=> s wo-0078937/pn
L4              0 WO-0078937/PN
                (WO78937/PN)

=> s steinert p?/au and marekov l?/au and nemes z?/au
                264 STEINERT P?/AU
                57 MAREKOV L?/AU
                33 NEMES Z?/AU
L5              5 STEINERT P?/AU AND MAREKOV L?/AU AND NEMES Z?/AU

=> d 1-5

L5      ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2003 ACS on STN
AN      2001:513434  CAPLUS
DN      136:66349
TI      Analysis of protein transglutamylation in apoptosis
AU      Nemes, Zoltan; Madi, Andras; Marekov, Lyuben N.;
        Piacentini, Mauro; Steinert, Peter M.; Fesus, Laszlo

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CS Department of Psychiatry, University of Debrecen Medical and Health
 Sciences Center, Debrecen, H-4012, Hung.
 SO Methods in Cell Biology (2001), 66, 111-133
 CODEN: MCBLAG; ISSN: 0091-679X
 PB Academic Press
 DT Journal; General Review
 LA English
 RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2000:911405 CAPLUS
 DN 134:68051
 TI Ichthyosis skin diseases amelioration with transglutaminase 1
 IN **Steinert, Peter; Marekov, Lyuben; Nemes, Zoltan**
 PA Government of the United States of America, as Represented by the
 Secretary, Dept. of Health and Human Services, USA
 SO PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078937	A1	20001228	WO 2000-US17235	20000622
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 2000057595	A5	20010109	AU 2000-57595	20000622
	US 2003072795	A1	20030417	US 2001-23275	20011213
PRAI	US 1999-140656P	P	19990623		
	WO 2000-US17235	W	20000622		

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2000:99438 CAPLUS
 DN 132:249443
 TI Cholesterol 3-sulfate interferes with cornified envelope assembly by diverting transglutaminase 1 activity from the formation of cross-links and esters to the hydrolysis of glutamine
 AU **Nemes, Zoltan; Demeny, Mate; Marekov, Lyuben N.; Fesus, Laszlo; Steinert, Peter M.**
 CS Laboratory of Skin Biology, NIAMSD, National Institutes of Health, Bethesda, MD, 20892-2752, USA
 SO Journal of Biological Chemistry (2000), 275(4), 2636-2646
 CODEN: JBCHA3; ISSN: 0021-9258
 PB American Society for Biochemistry and Molecular Biology
 DT Journal
 LA English
 RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1999:477718 CAPLUS
 DN 131:268814
 TI A novel function for transglutaminase 1: attachment of long-chain

.omega.-hydroxyceramides to involucrin by ester bond formation
 AU **Nemes, Zoltan; Marekov, Lyuben N.; Fesus, Lazlo; Steinert, Peter M.**
 CS Laboratory of Skin Biology, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, MD, 20892-2752, USA
 SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(15), 8402-8407
 CODEN: PNASA6; ISSN: 0027-8424
 PB National Academy of Sciences
 DT Journal
 LA English
 RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1999:265517 CAPLUS
 DN 131:70250
 TI Involucrin cross-linking by transglutaminase 1. Binding to membranes directs residue specificity
 AU **Nemes, Zoltan; Marekov, Lyuben N.; Steinert, Peter M.**
 CS Laboratory of Skin Biology, NIAMS, National Institutes of Health, Bethesda, MD, 20892-2752, USA
 SO Journal of Biological Chemistry (1999), 274(16), 11013-11021
 CODEN: JBCHA3; ISSN: 0021-9258
 PB American Society for Biochemistry and Molecular Biology
 DT Journal
 LA English
 RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ind 2

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 IC ICM C12N009-10
 ICS A61K038-46; A61K009-133; C07C235-08; C07C235-28; A61P017-00
 CC 7-8 (Enzymes)
 Section cross-reference(s): 1, 14
 ST ichthyosis skin disease amelioration transglutaminase; transglutaminase ester formation involucrin hydroxyceramide epidermis; crosslinking small proline rich protein transglutaminase
 IT Cell envelope
 (cornified; ichthyosis skin diseases amelioration with transglutaminase 1)
 IT Proteins, specific or class
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (cystatin .alpha.; ichthyosis skin diseases amelioration with transglutaminase 1)
 IT Pigments, nonbiological
 (delivery agent; ichthyosis skin diseases amelioration with transglutaminase 1)
 IT Proteins, specific or class
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (desmoplakin, delivery agent; ichthyosis skin diseases amelioration with transglutaminase 1)
 IT Proteins, specific or class
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (elafin, delivery agent; ichthyosis skin diseases amelioration with transglutaminase 1)
 IT Proteins, specific or class

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(envoplakin, delivery agent; ichthyosis skin diseases amelioration with
transglutaminase 1)

IT Skin
(epidermis; ichthyosis skin diseases amelioration with transglutaminase
1)

IT Proteins, specific or class
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(extracellular matrix-assocd., delivery agent; ichthyosis skin diseases
amelioration with transglutaminase 1)

IT Ceramides
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(hydroxy- or synthetic analog; ichthyosis skin diseases amelioration
with transglutaminase 1)

IT Cell envelope
Cell membrane
Esterification
(ichthyosis skin diseases amelioration with transglutaminase 1)

IT Skin, disease
(ichthyosis; ichthyosis skin diseases amelioration with
transglutaminase 1)

IT Cytoskeleton
(intermediate filament, keratin; ichthyosis skin diseases amelioration
with transglutaminase 1)

IT Keratins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(intermediate filaments, delivery agent; ichthyosis skin diseases
amelioration with transglutaminase 1)

IT Proteins, specific or class
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(involucrins; ichthyosis skin diseases amelioration with
transglutaminase 1)

IT Proteins, specific or class
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(loricrins, delivery agent; ichthyosis skin diseases amelioration with
transglutaminase 1)

IT Proteins, specific or class
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(periplakin, delivery agent; ichthyosis skin diseases amelioration with
transglutaminase 1)

IT Proteins, specific or class
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(proline-rich, delivery agent; ichthyosis skin diseases amelioration
with transglutaminase 1)

IT Proteins, specific or class
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(repetin, delivery agent; ichthyosis skin diseases amelioration with
transglutaminase 1)

IT Liposomes
(synthetic lipid; ichthyosis skin diseases amelioration with
transglutaminase 1)

IT Proteins, specific or class
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(trichohyalins, delivery agent; ichthyosis skin diseases amelioration
with transglutaminase 1)

IT Ceramides
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (.omega.-hydroxy; ichthyosis skin diseases amelioration with
 transglutaminase 1)

IT 80146-85-6
 RL: CAT (Catalyst use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (1; ichthyosis skin diseases amelioration with transglutaminase 1)

IT 9025-62-1, Cholesterol sulfate sulfatase 70694-24-5, Fatty aldehyde
 dehydrogenase
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (delivery agent; ichthyosis skin diseases amelioration with
 transglutaminase 1)

IT 56-85-9, L-Glutamine, biological studies
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
 (Biological study); PROC (Process)
 (ichthyosis skin diseases amelioration with transglutaminase 1)

IT 245447-18-1P
 RL: BPR (Biological process); BSU (Biological study, unclassified); SPN
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC
 (Process)
 (ichthyosis skin diseases amelioration with transglutaminase 1)

IT 315258-43-6, 6: PN: WO0078937 SEQID: 11 unclaimed DNA 315258-44-7, 7:
 PN: WO0078937 SEQID: 12 unclaimed DNA
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; ichthyosis skin diseases amelioration
 with transglutaminase 1)

IT 316121-75-2 316121-76-3 316121-77-4 316121-78-5 316121-79-6
 316121-80-9 316121-81-0 316121-82-1 316121-83-2 316121-84-3
 RL: PRP (Properties)
 (unclaimed sequence; ichthyosis skin diseases amelioration with
 transglutaminase 1)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	14.32	14.93

FILE 'REGISTRY' ENTERED AT 16:13:46 ON 23 OCT 2003

=> S 245447-18-1/RN

L6 1 245447-18-1/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
 SET COMMAND COMPLETED

=> D L6 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
 THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
 RN **245447-18-1** REGISTRY
 CN Hexadecanoic acid, 16-[(16-hydroxyhexadecyl)oxy]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C32 H64 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

HO₂C (CH₂)₁₅-O-(CH₂)₁₆ OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> file ca

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.08	17.01

FULL ESTIMATED COST

FILE 'CA' ENTERED AT 16:14:22 ON 23 OCT 2003

=> s 16

L7 2 L6

=> d 1-2 cbib

L7 ANSWER 1 OF 2 CA COPYRIGHT 2003 ACS on STN

134:68051 Ichthyosis skin diseases amelioration with transglutaminase 1. Steinert, Peter; Marekov, Lyuben; Nemes, Zoltan (Government of the United States of America, as Represented by the Secretary, Dept. of Health and Human Services, USA). PCT Int. Appl. WO 2000078937 A1 20001228, 77 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-US17235 20000622. PRIORITY: US 1999-PV140656 19990623.

L7 ANSWER 2 OF 2 CA COPYRIGHT 2003 ACS on STN

131:268814 A novel function for transglutaminase 1: attachment of long-chain .omega.-hydroxyceramides to involucrin by ester bond formation. Nemes, Zoltan; Marekov, Lyuben N.; Fesus, Lazlo; Steinert, Peter M. (Laboratory of Skin Biology, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, MD, 20892-2752, USA). Proceedings of the National Academy of Sciences of the United States of America, 96(15), 8402-8407 (English) 1999. CODEN: PNASA6. ISSN: 0027-8424. Publisher: National Academy of Sciences.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.32	19.33

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 16:15:07 ON 23 OCT 2003